FIG. 1

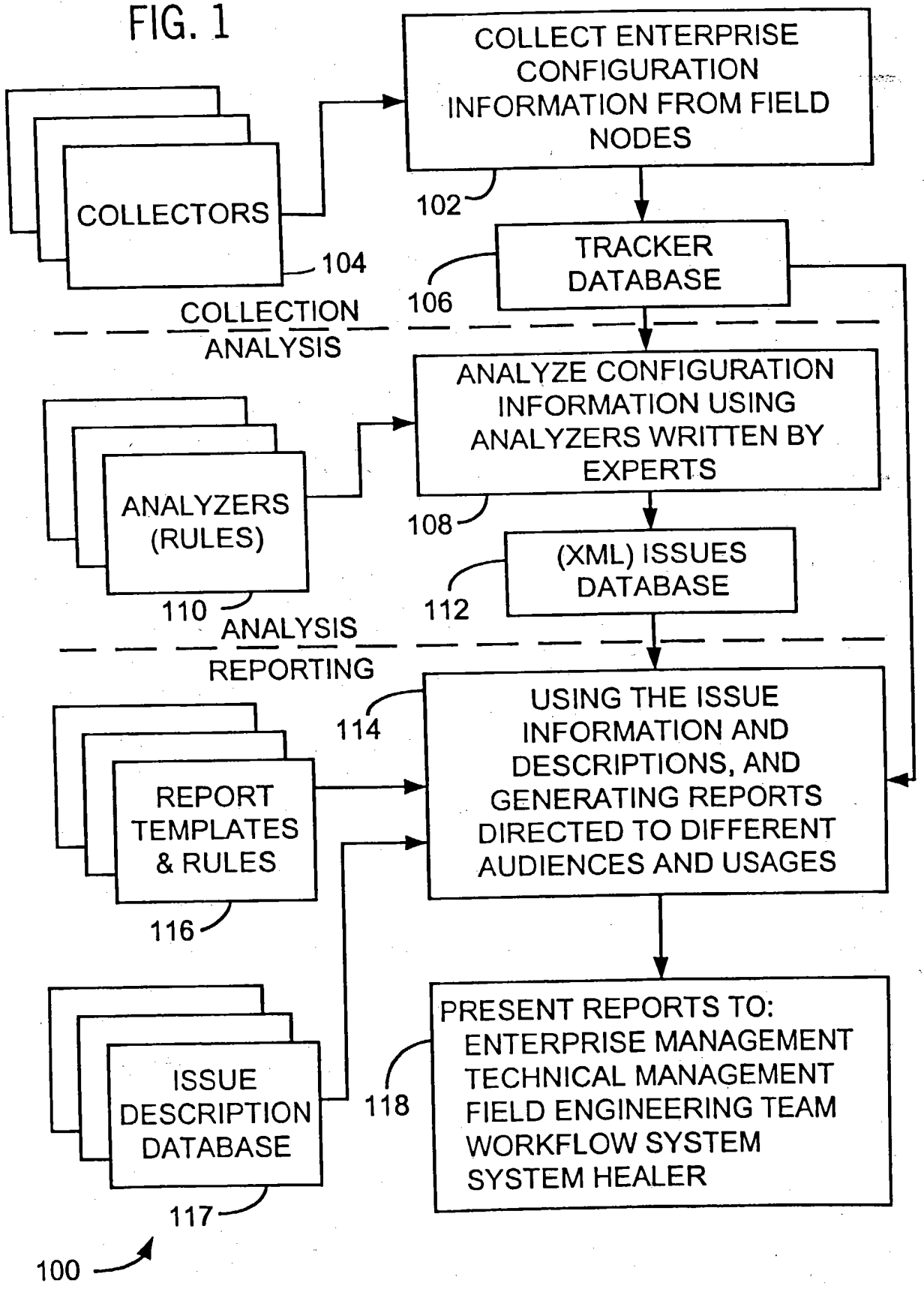

COLLECT ENTERPRISE CONFIGURATION INFORMATION FROM FIELD NODES
102
COLLECTORS
104
TRACKER DATABASE
106
COLLECTION
ANALYSIS
ANALYZE CONFIGURATION INFORMATION USING ANALYZERS WRITTEN BY EXPERTS
108
ANALYZERS (RULES)
110
(XML) ISSUES DATABASE
112
ANALYSIS
REPORTING
114
USING THE ISSUE INFORMATION AND DESCRIPTIONS, AND GENERATING REPORTS DIRECTED TO DIFFERENT AUDIENCES AND USAGES
REPORT TEMPLATES & RULES
116
PRESENT REPORTS TO:
ENTERPRISE MANAGEMENT
TECHNICAL MANAGEMENT
FIELD ENGINEERING TEAM
WORKFLOW SYSTEM
SYSTEM HEALER
118
ISSUE DESCRIPTION DATABASE
117
100

FIG. 2 ***ENTERPRISE LINKED TO ANALYZER AND REPORT GENERATOR***

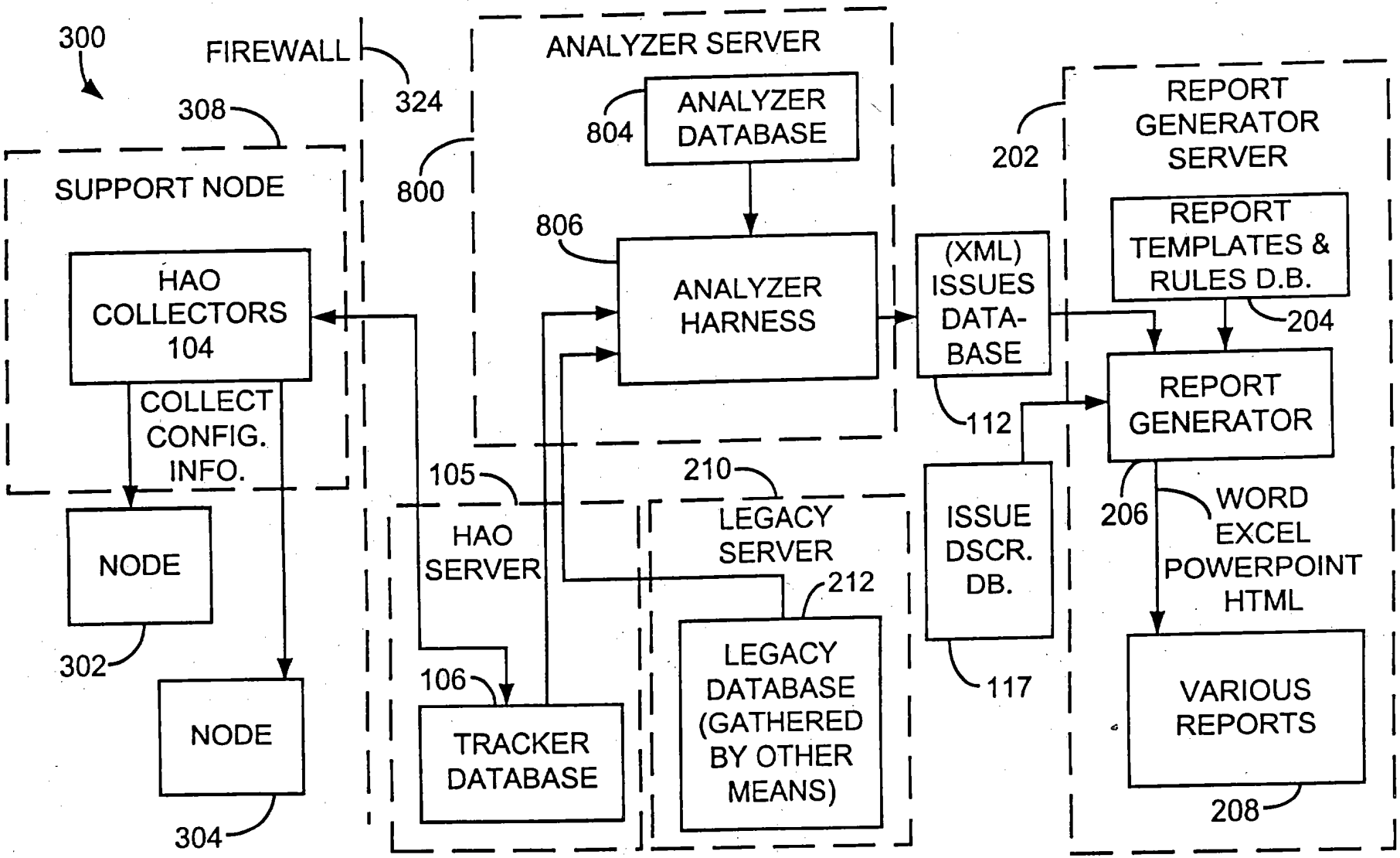


FIG. 3 *ENTERPRISE WITH SUPPORT NODE*

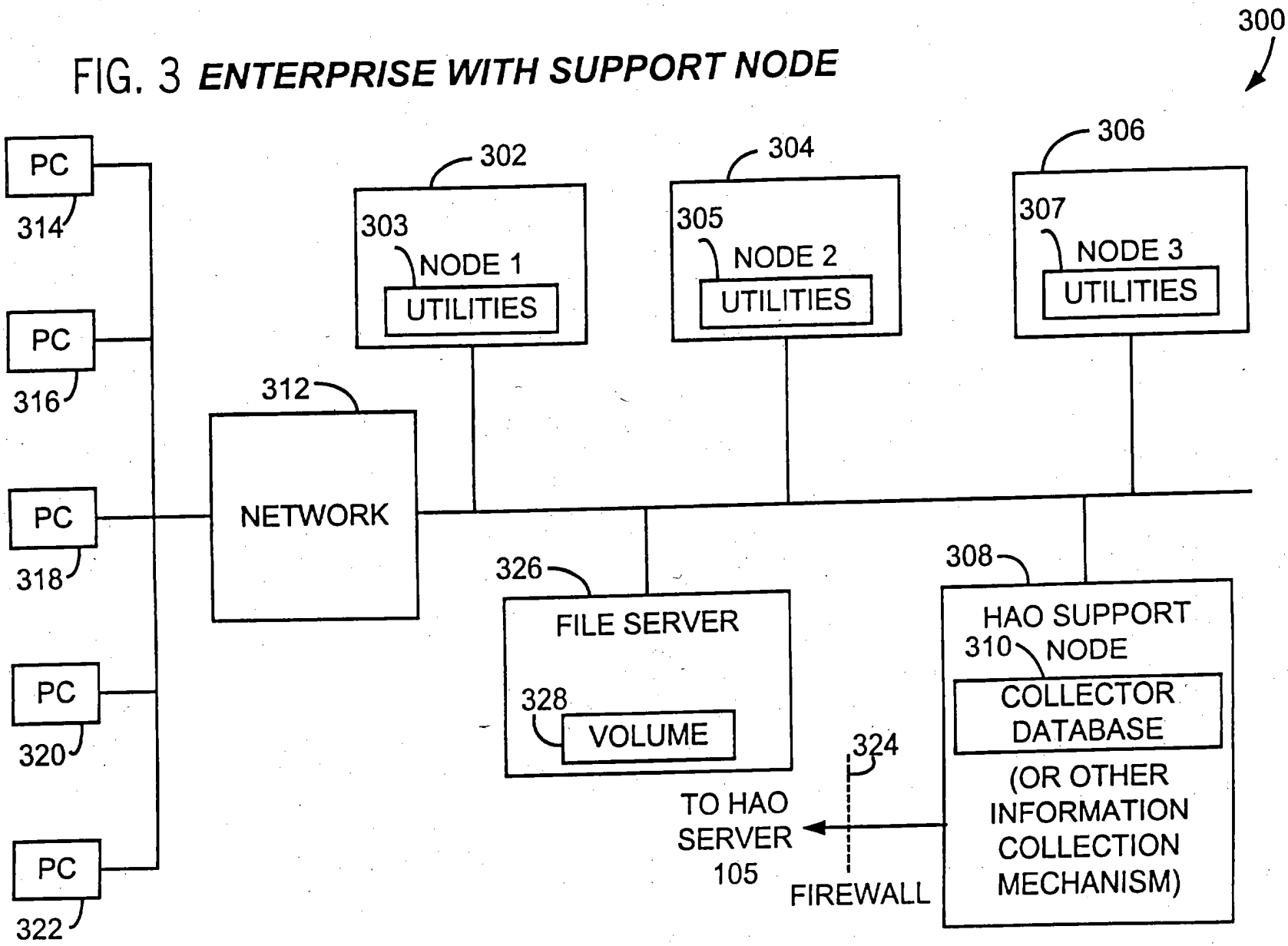


FIG. 4 COLLECTOR DATABASE

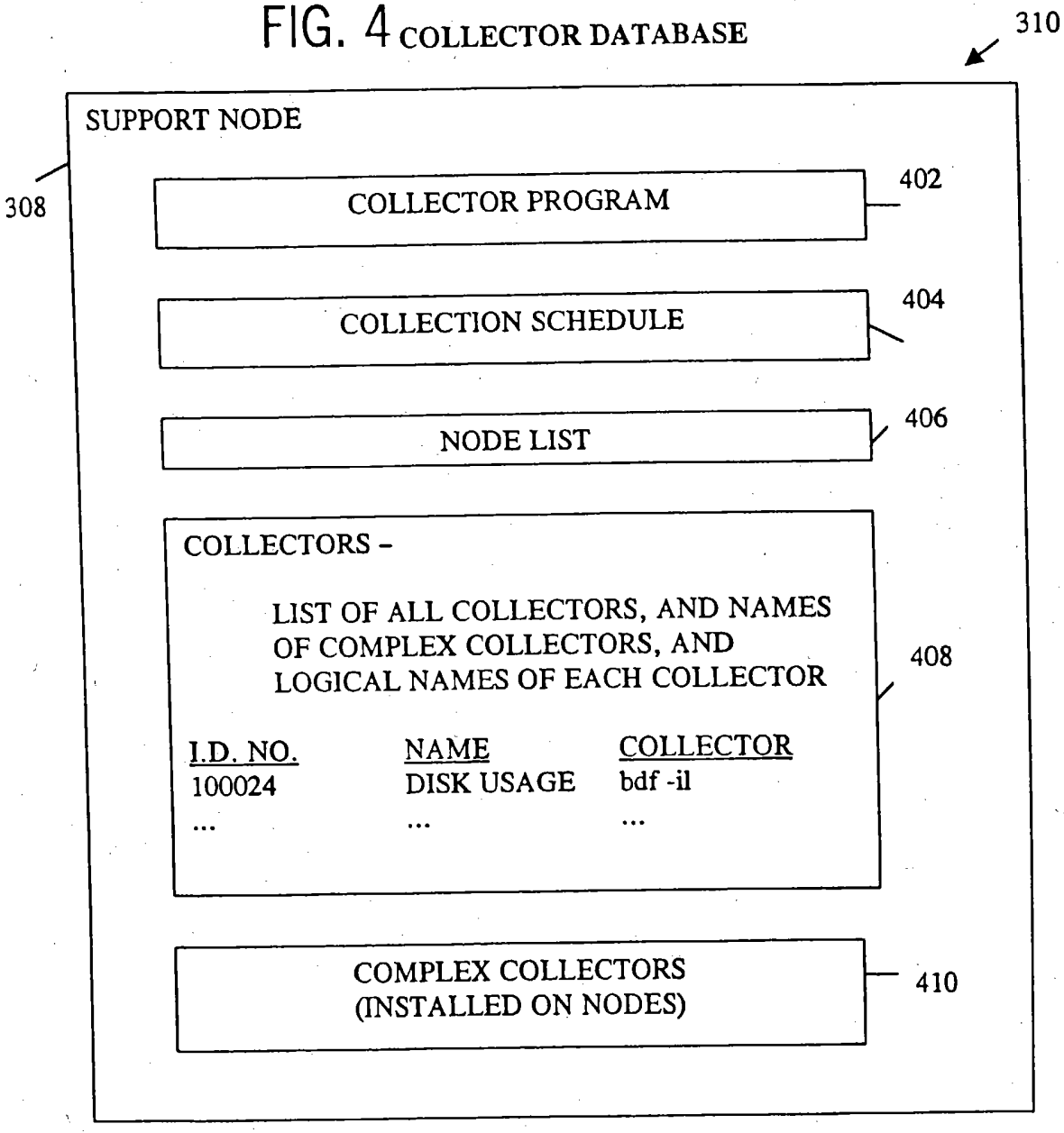


FIG. 5 COLLECTOR CREATION

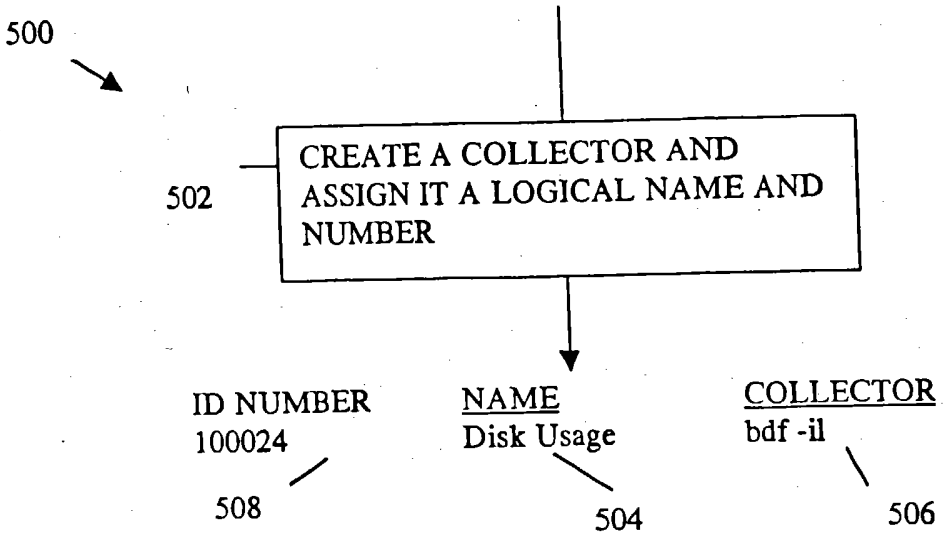


FIG. 6 COLLECTOR INSTALLATION ON ENTERPRISE

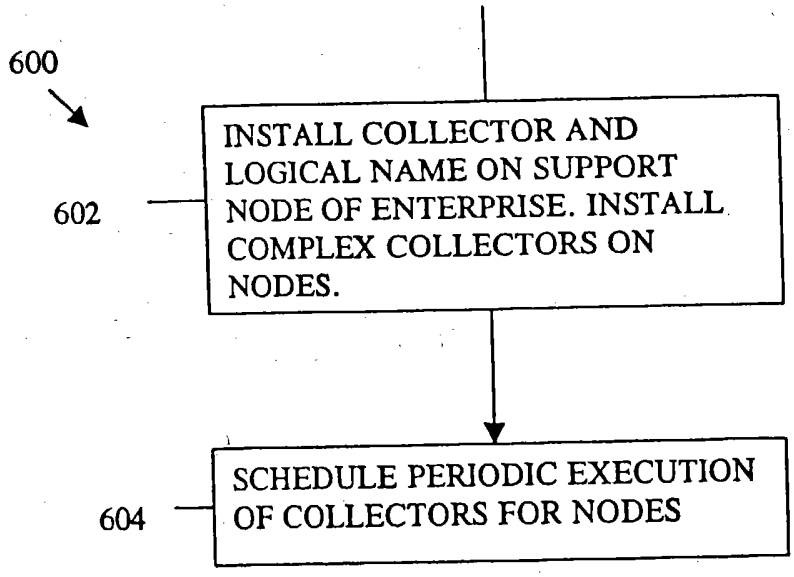


FIG. 7 ENTERPRISE COLLECTOR EXECUTION

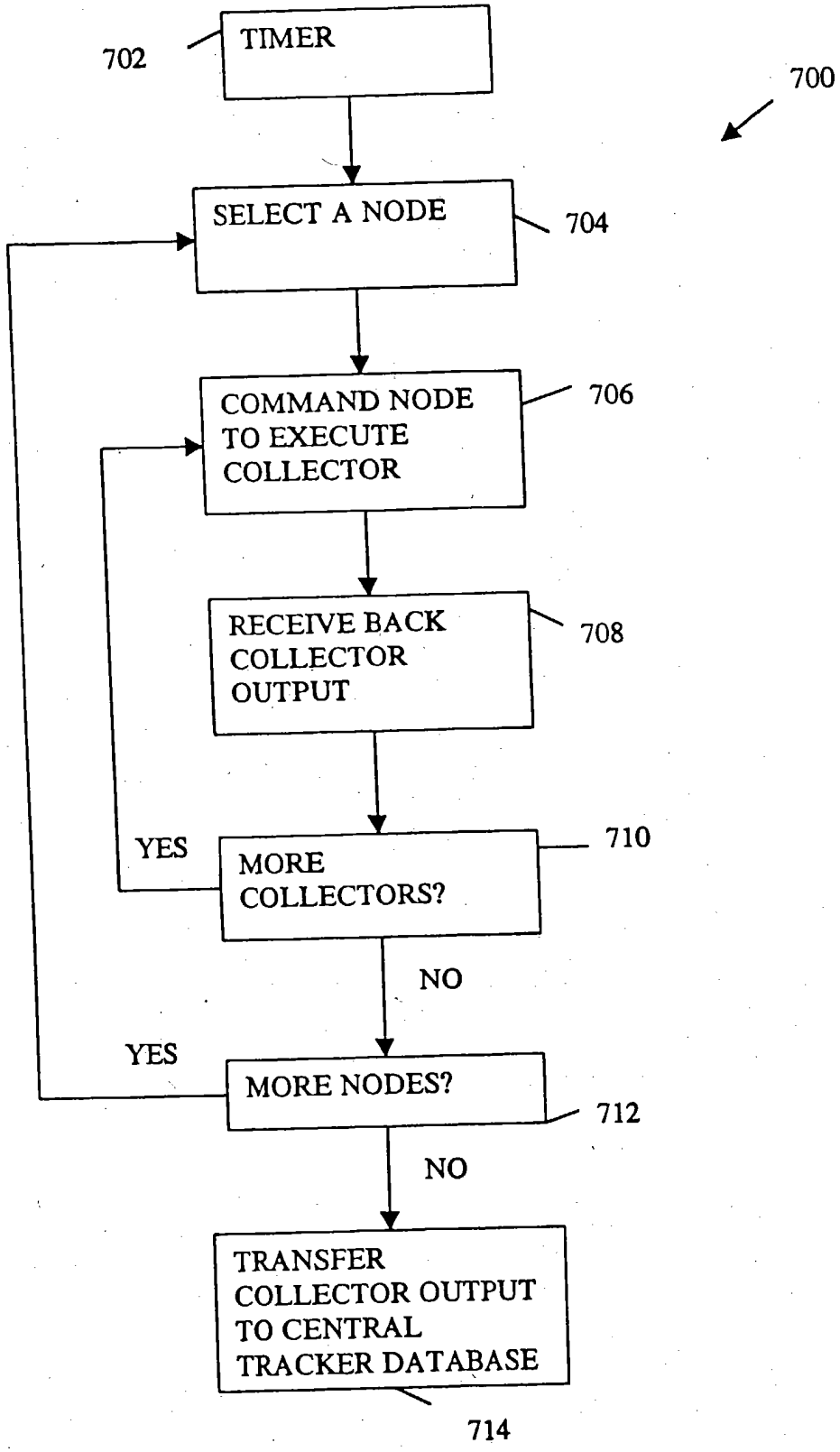


FIG. 8 *ANALYZER SERVER*

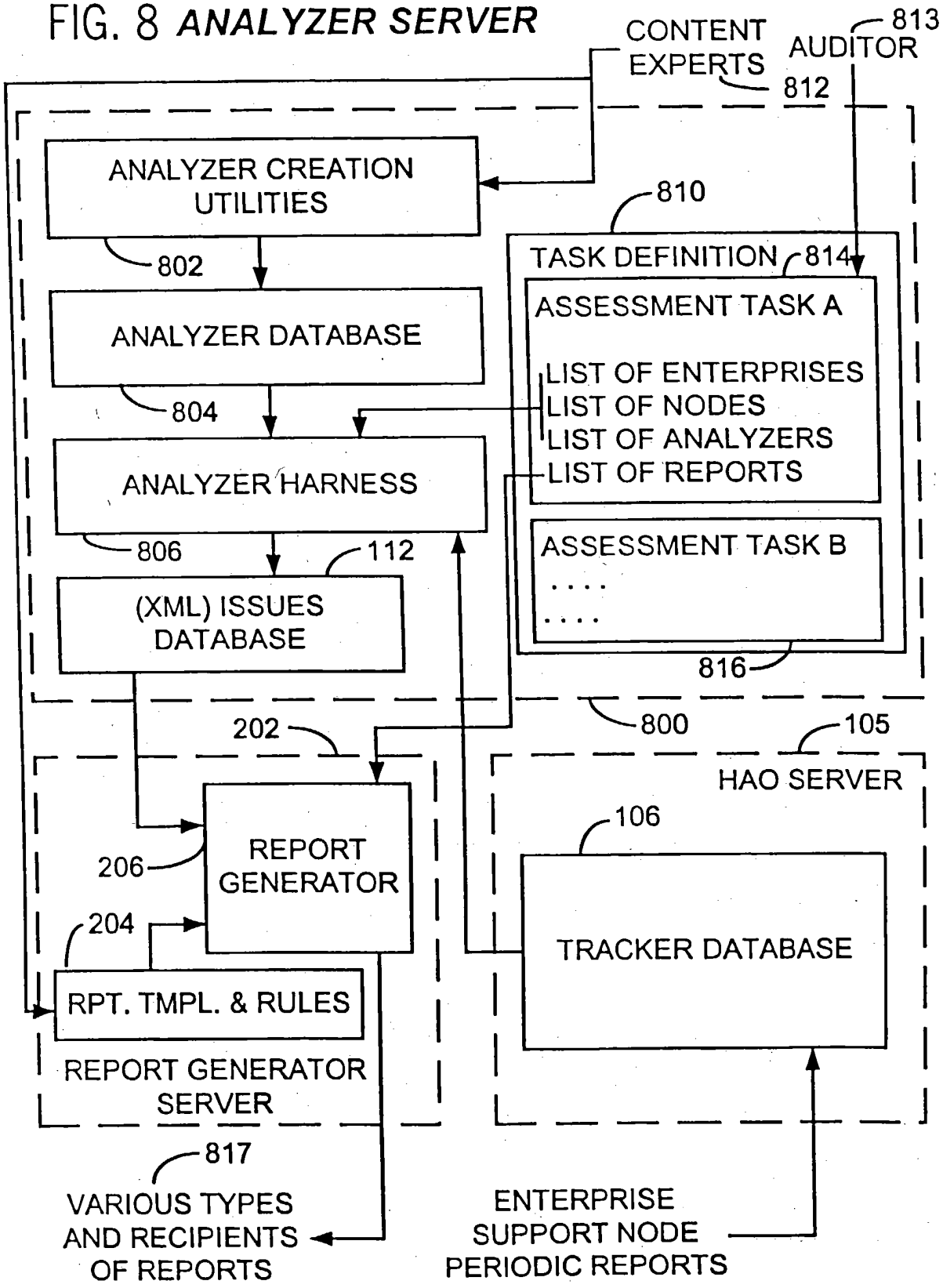


FIG. 9 TRACKER DATABASE

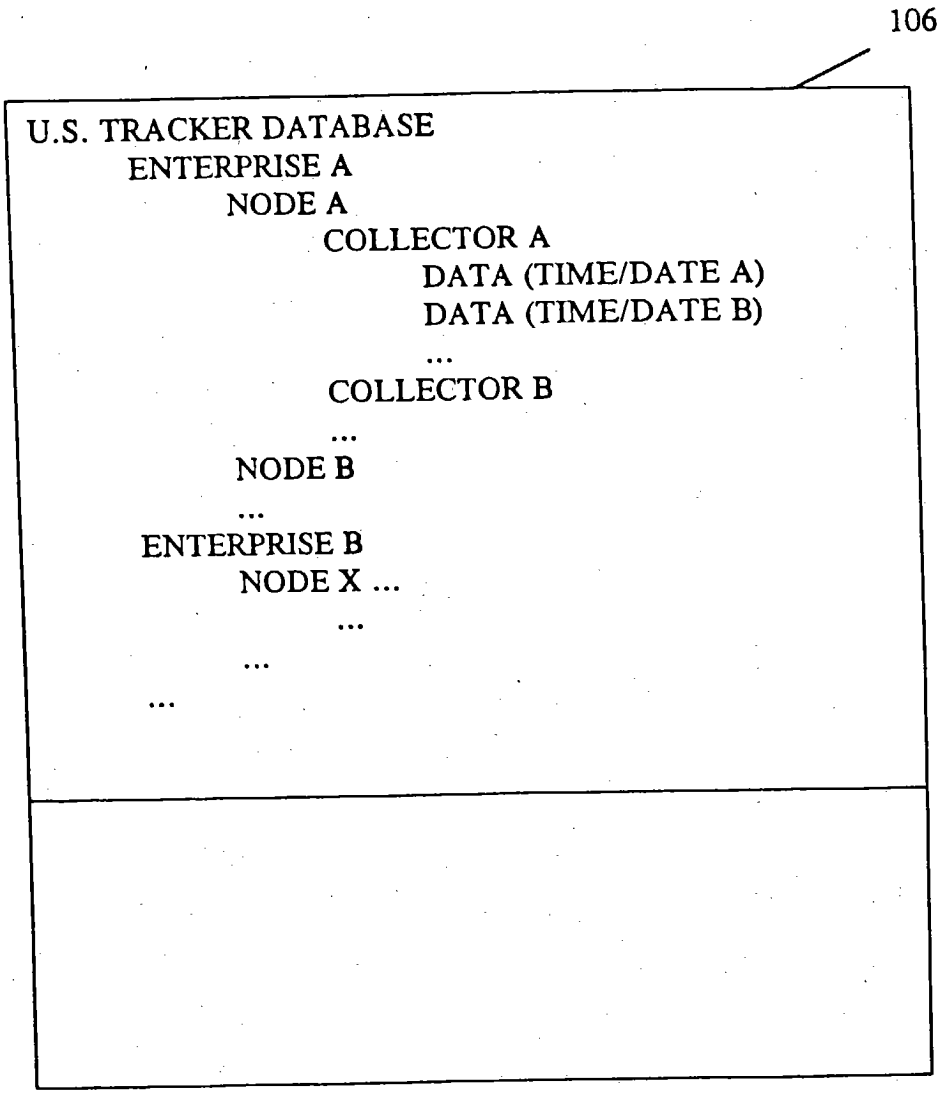
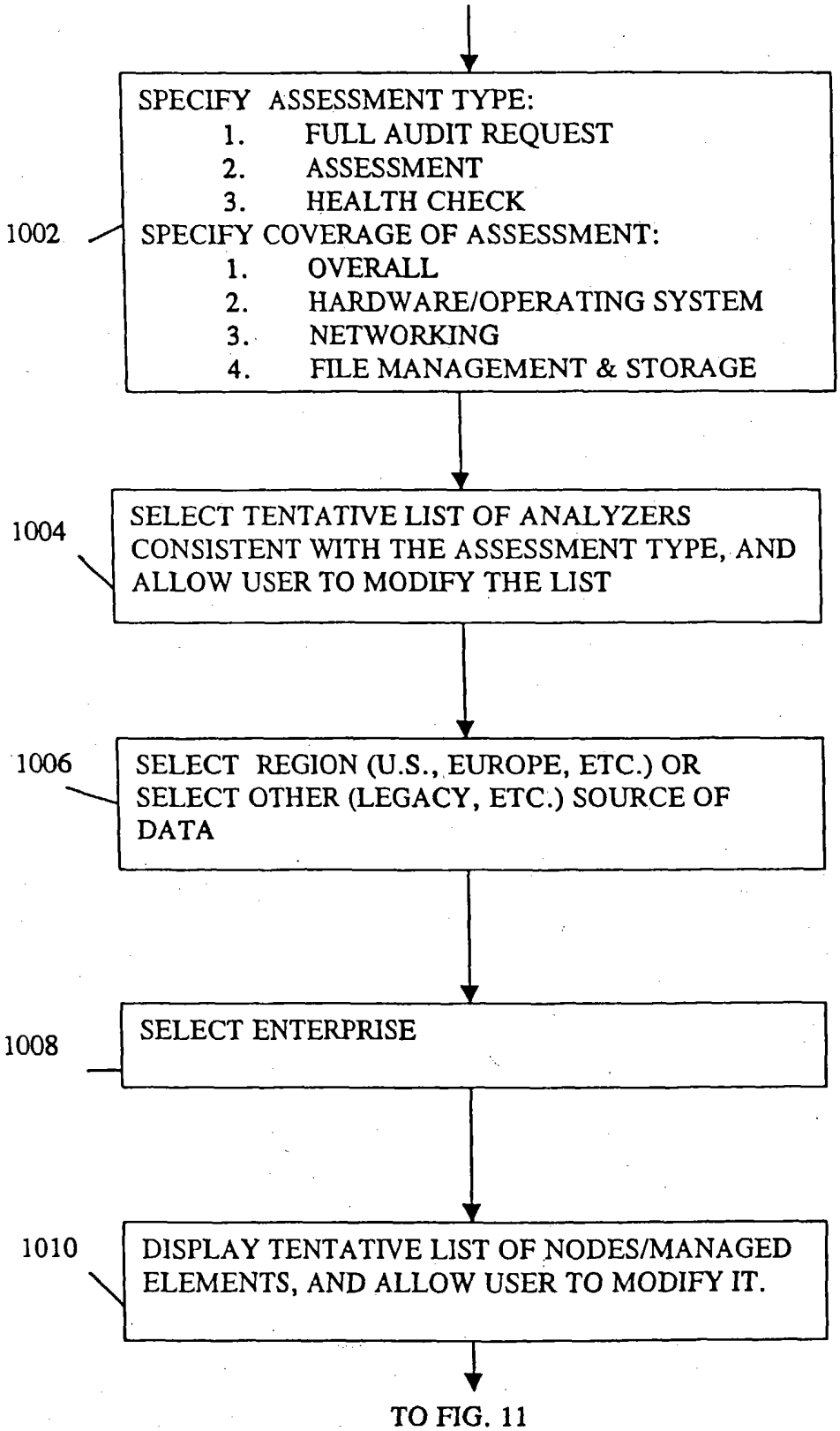


FIG. 10 TASK DEFINITION



TO FIG. 11

FIG. 11 REPORT DEFINITION

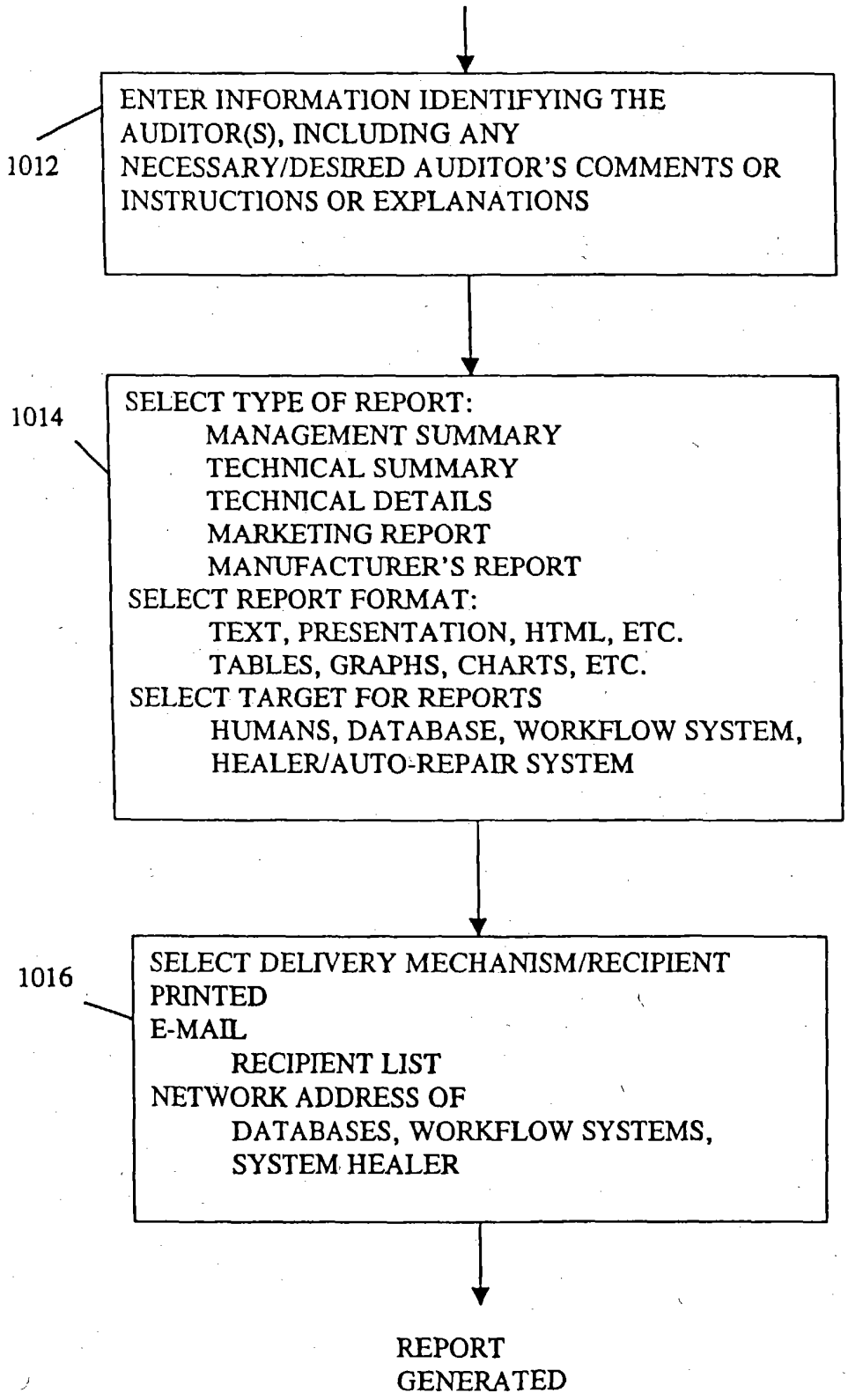


FIG. 12 ANALYZER CREATION

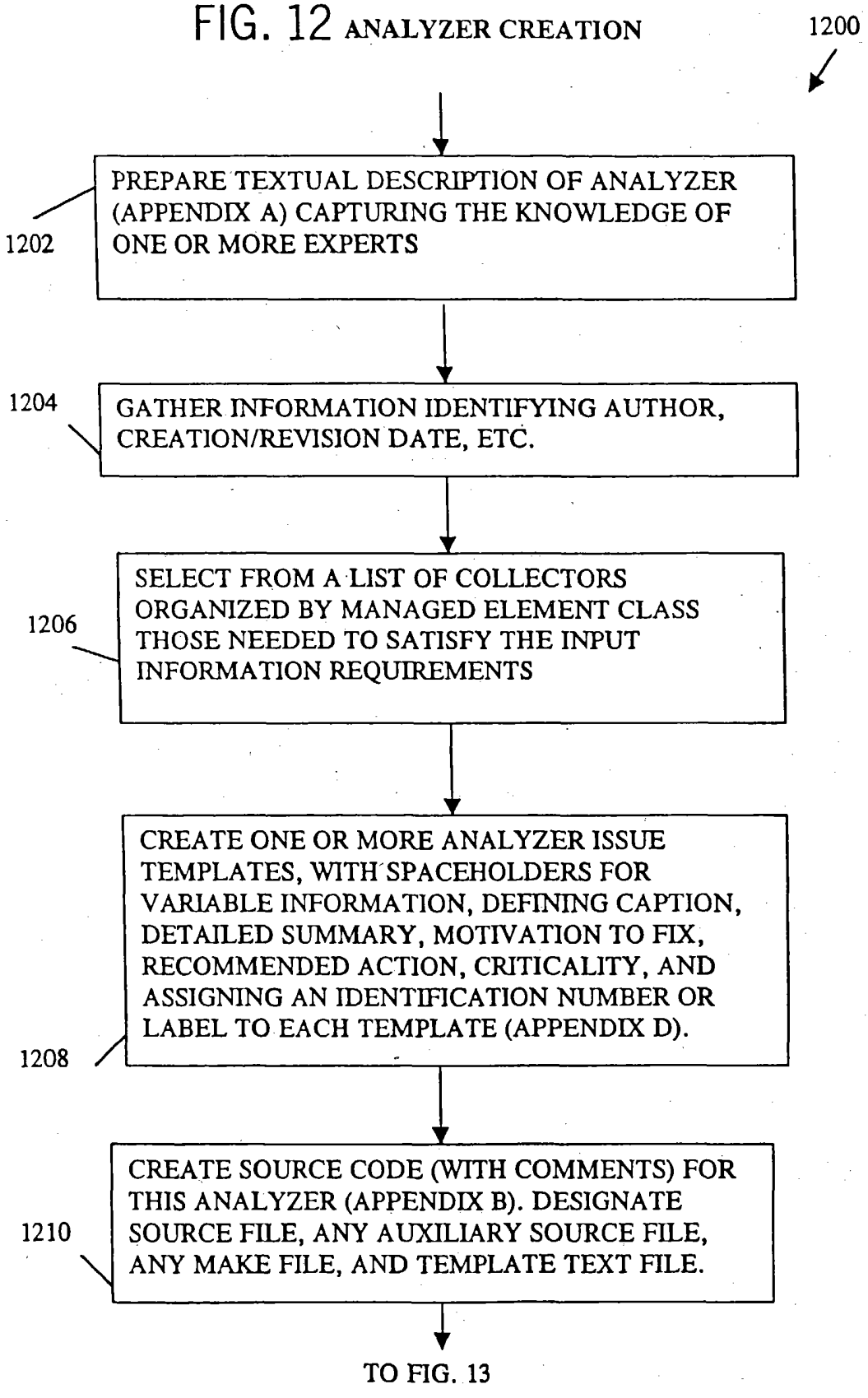


FIG. 13 ANALYZER CREATION (CONT.)

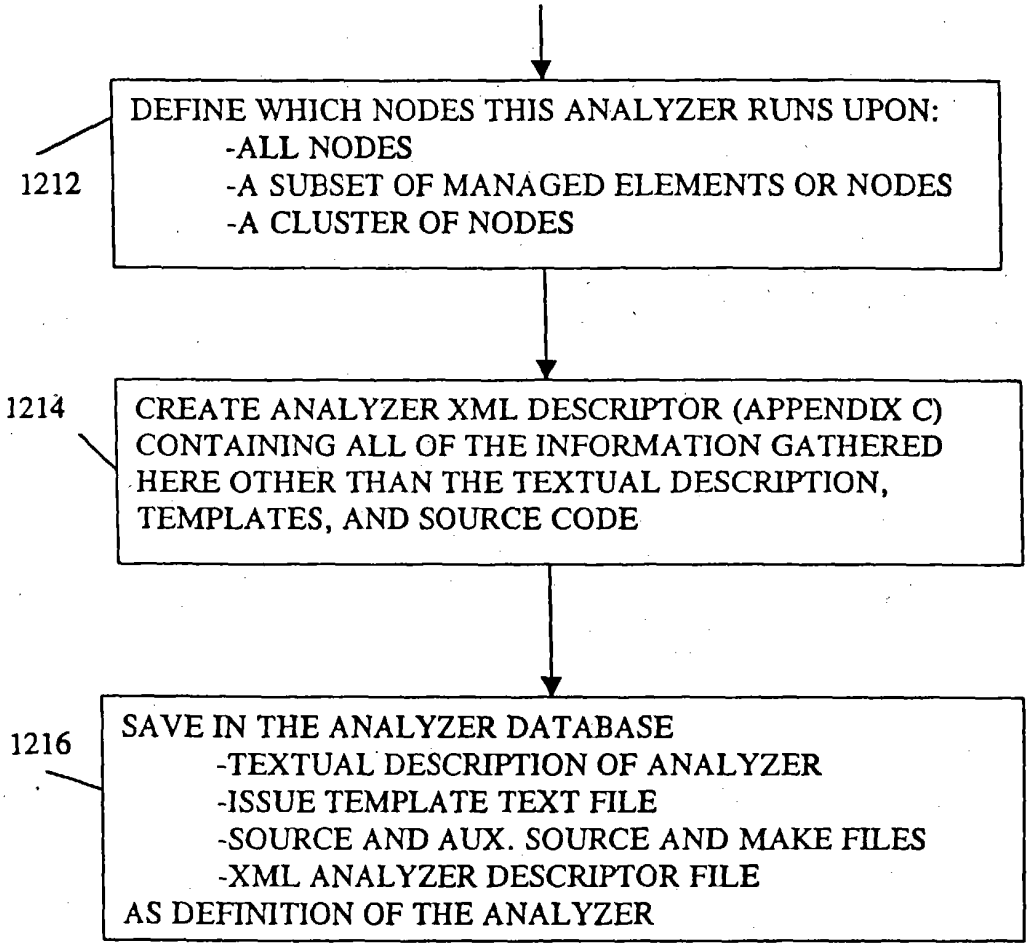


FIG. 14 ANALYZER CREATION USER INTERFACE

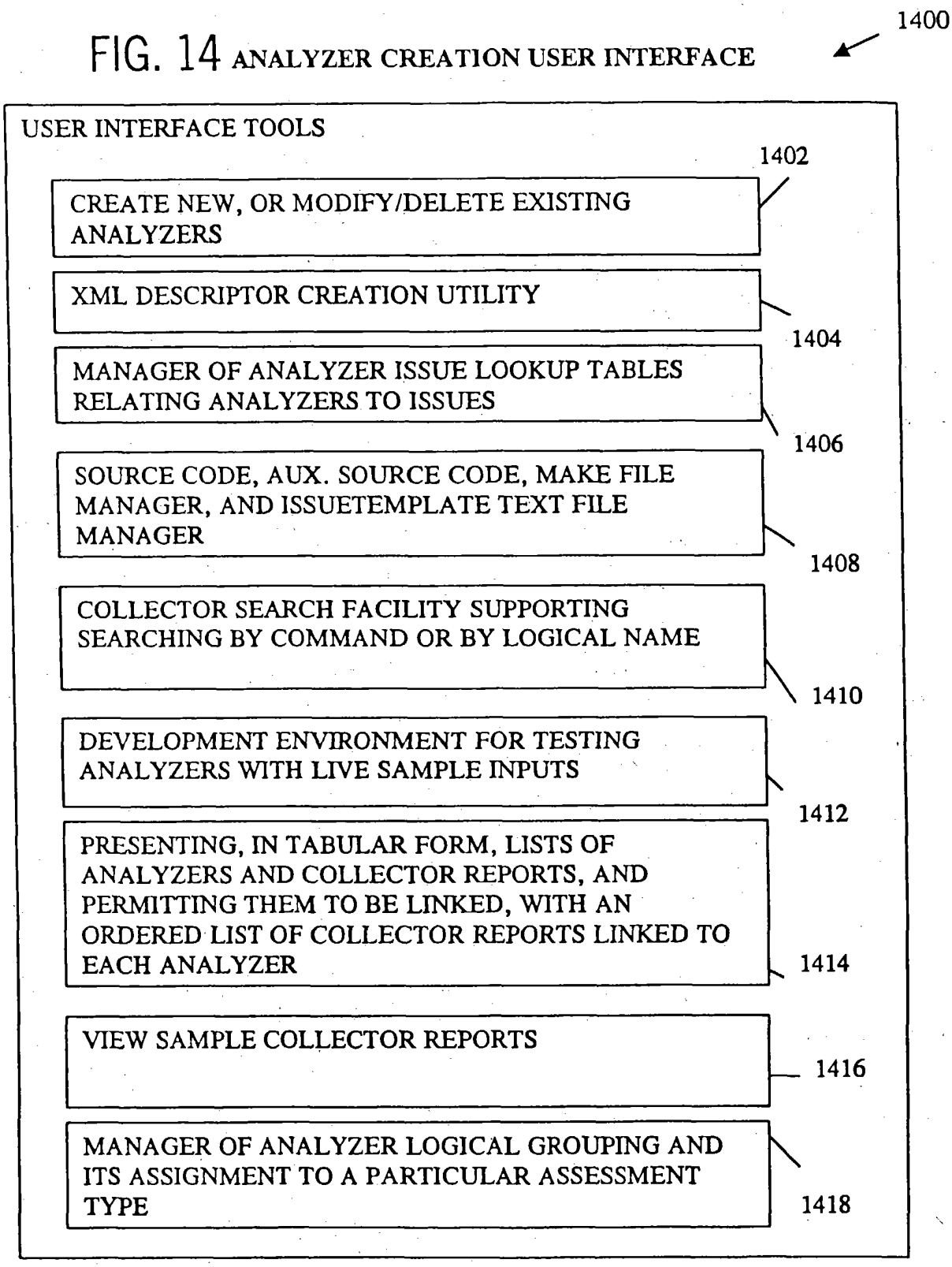


FIG. 15 ANALYZER HARNESS

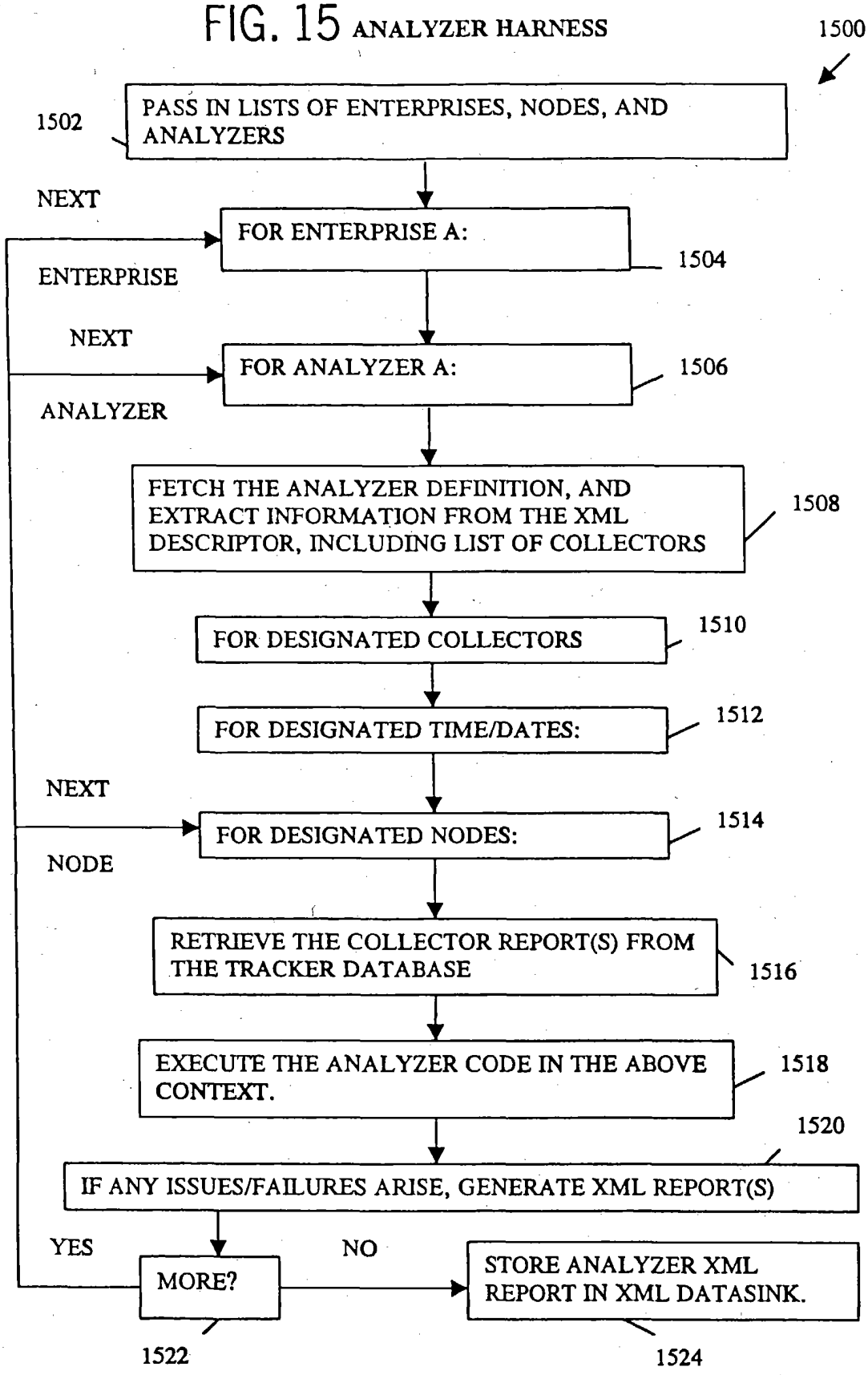


FIG. 16 REPORT TEMPLATE CREATION

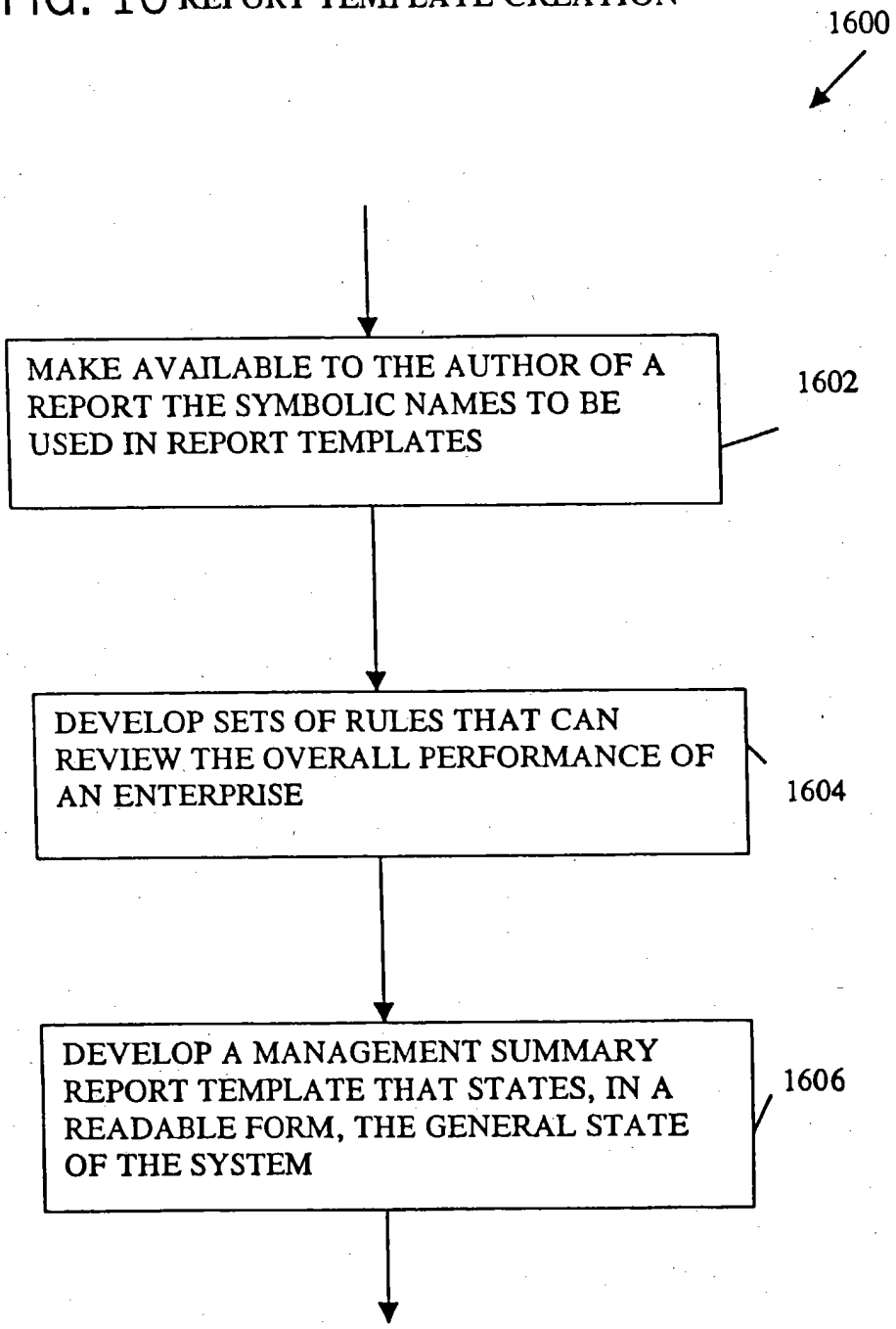
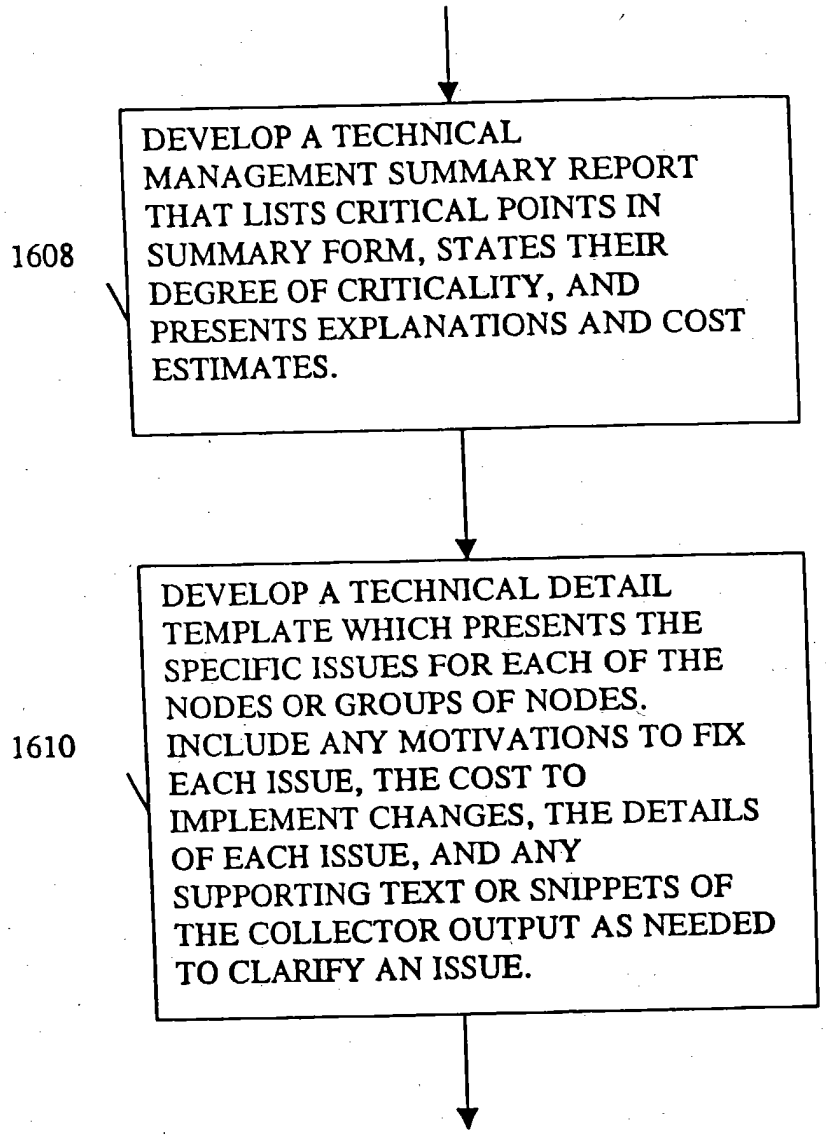


FIG. 17

FROM FIG. 16



TO FIG. 18

FIG. 18

FROM FIG. 17

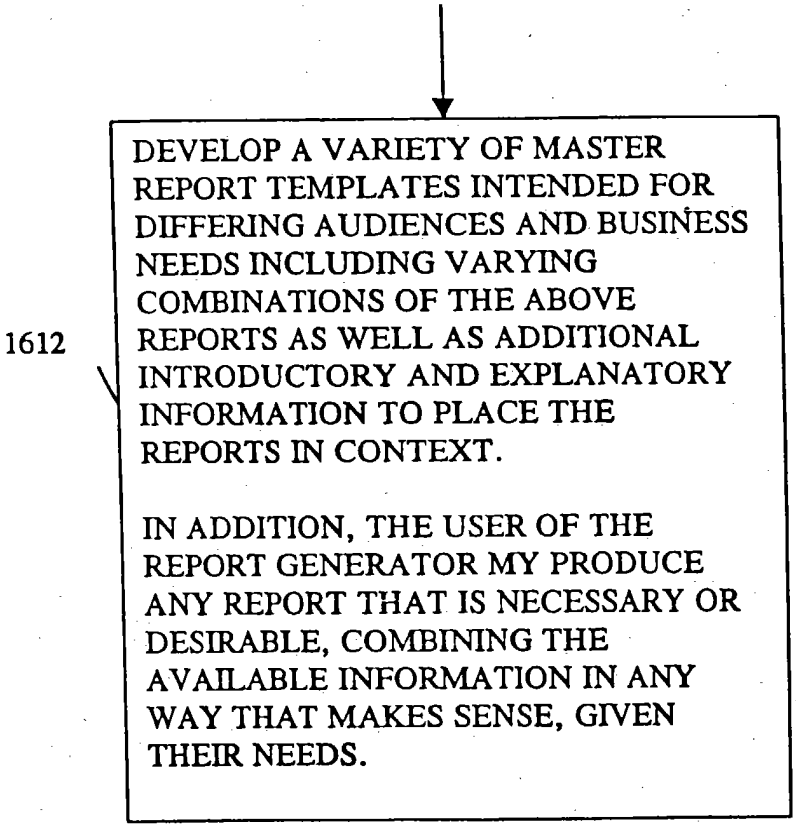


FIG. 19 REPORT GENERATOR

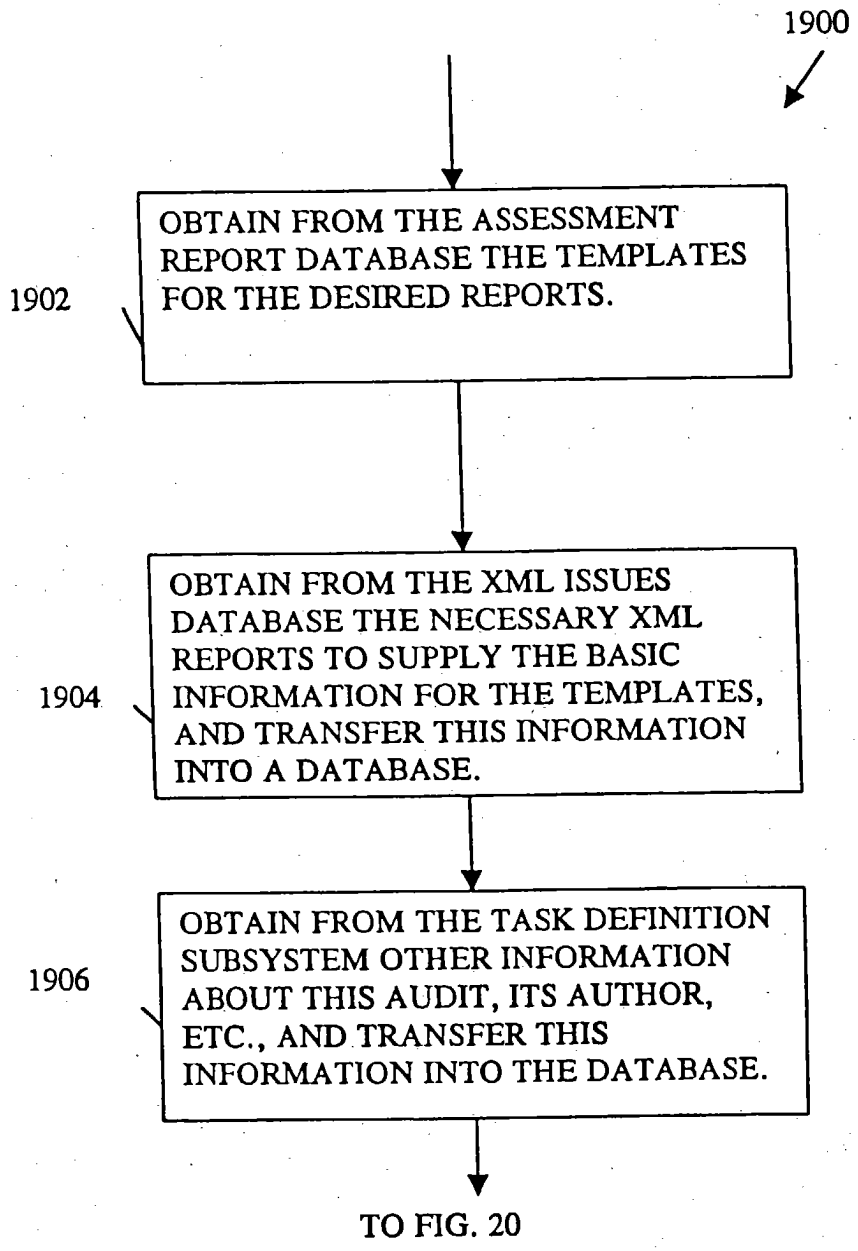


FIG. 20

FROM FIG. 19

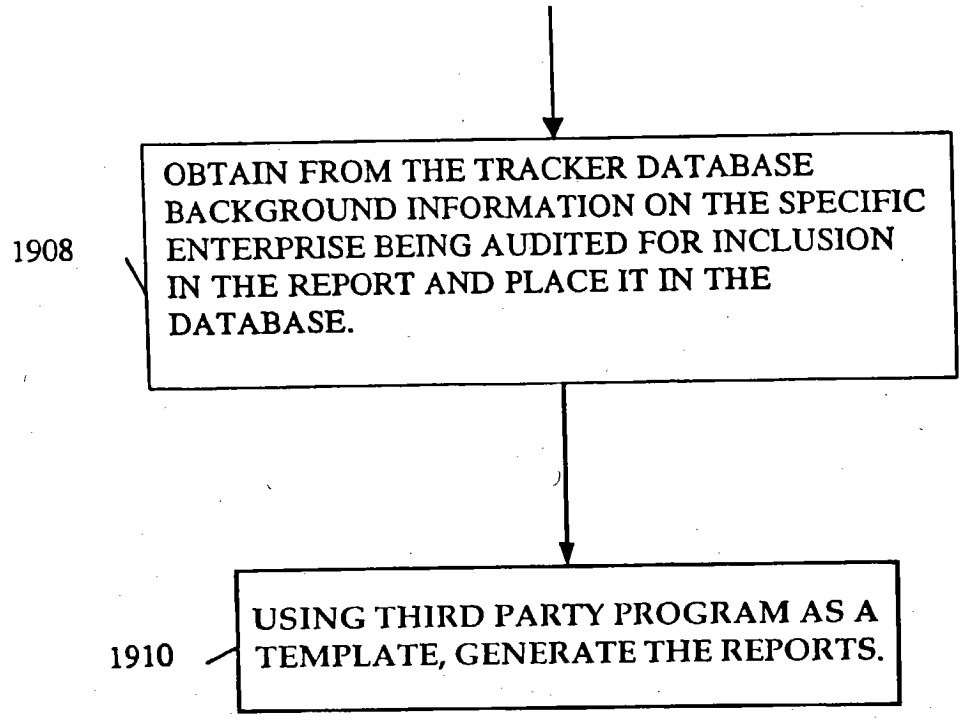


FIG. 21

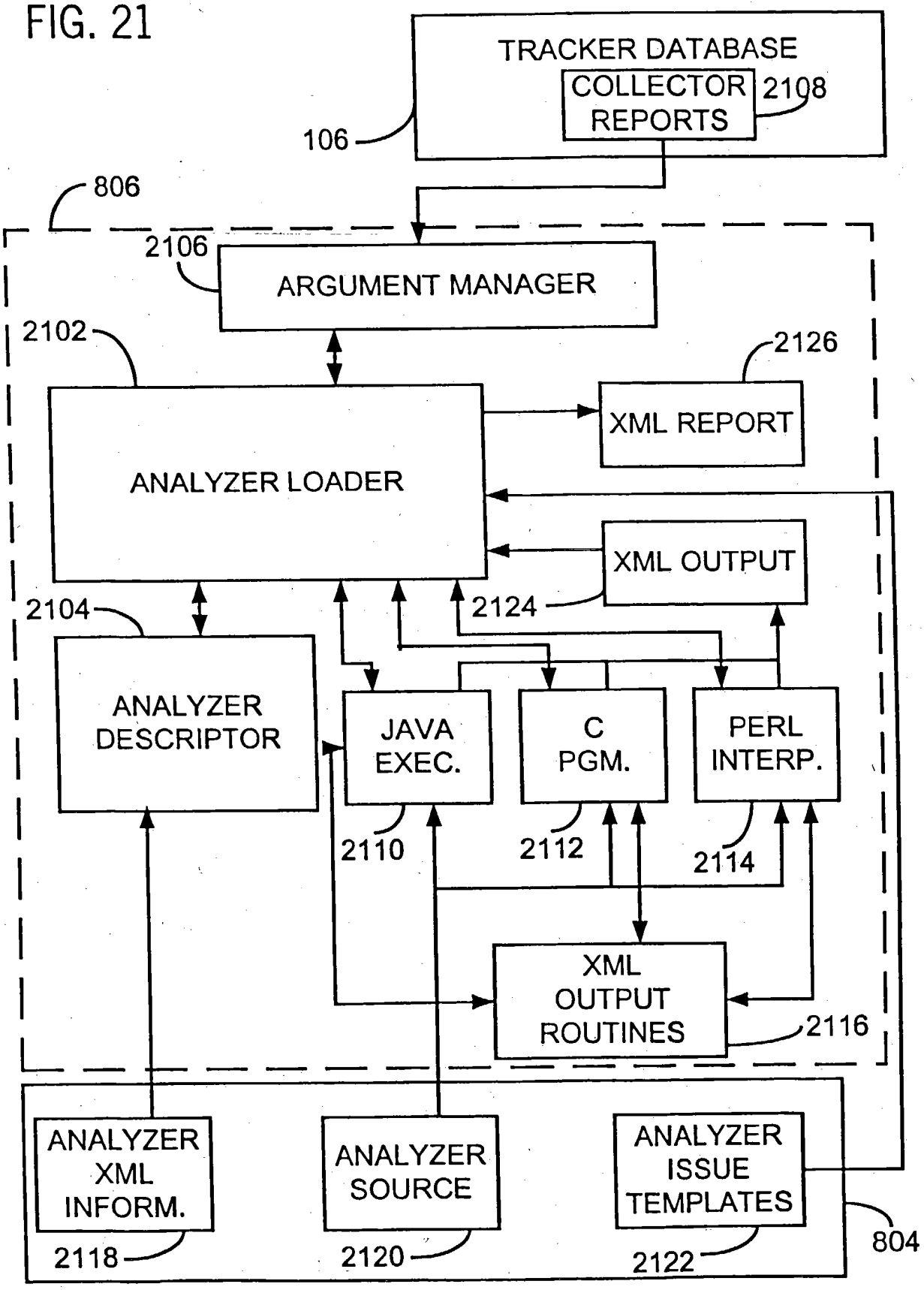

TRACKER DATABASE
COLLECTOR REPORTS
2108
106
806
2106
ARGUMENT MANAGER
2102
2126
XML REPORT
ANALYZER LOADER
XML OUTPUT
2124
2104
ANALYZER DESCRIPTOR
JAVA EXEC.
C PGM.
PERL INTERP.
2110
2112
2114
XML OUTPUT ROUTINES
2116
ANALYZER XML INFORM.
ANALYZER SOURCE
ANALYZER ISSUE TEMPLATES
2118
2120
2122
804

FIG. 22 ANALYZER HARNESS OPERATION

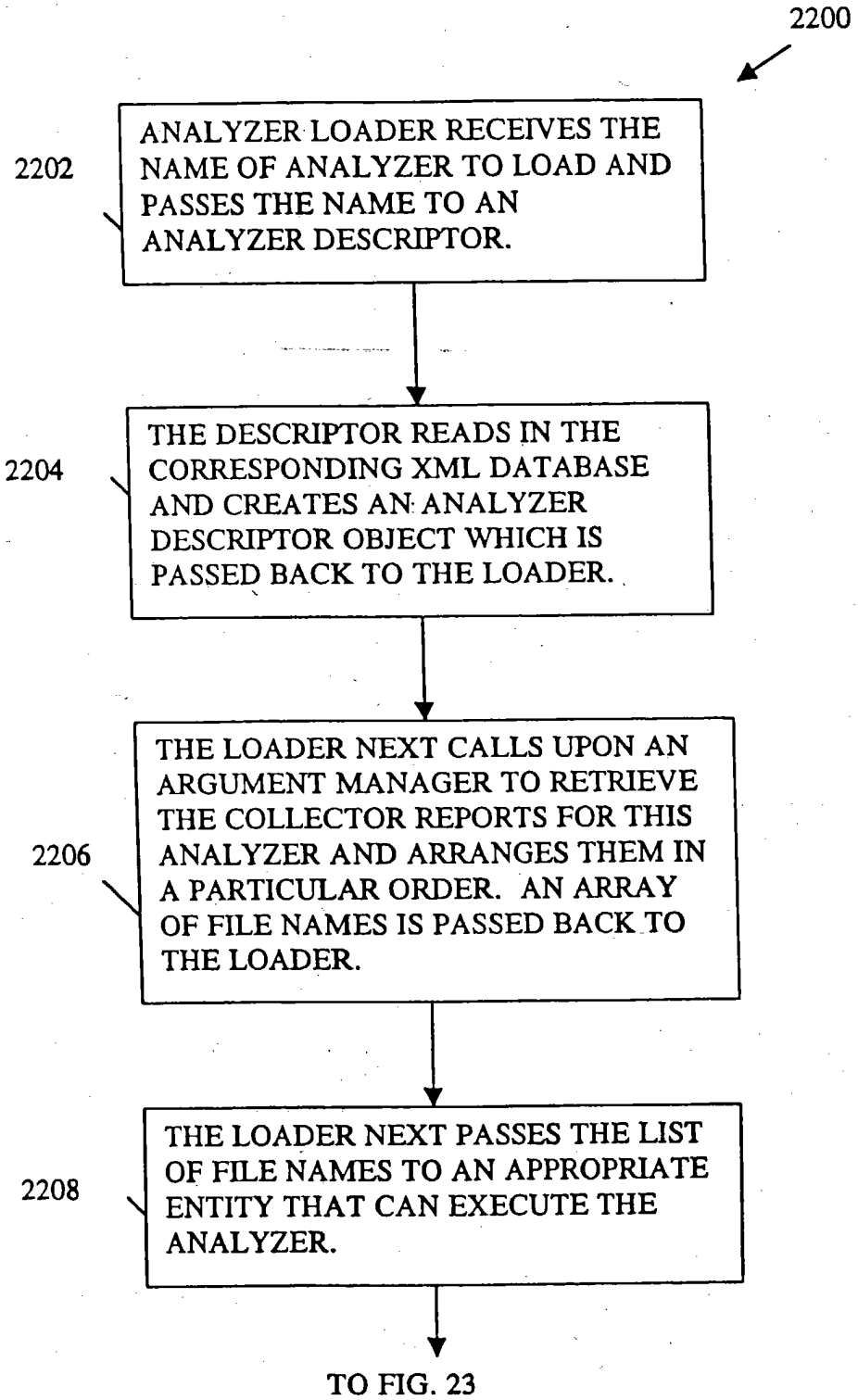


FIG. 23

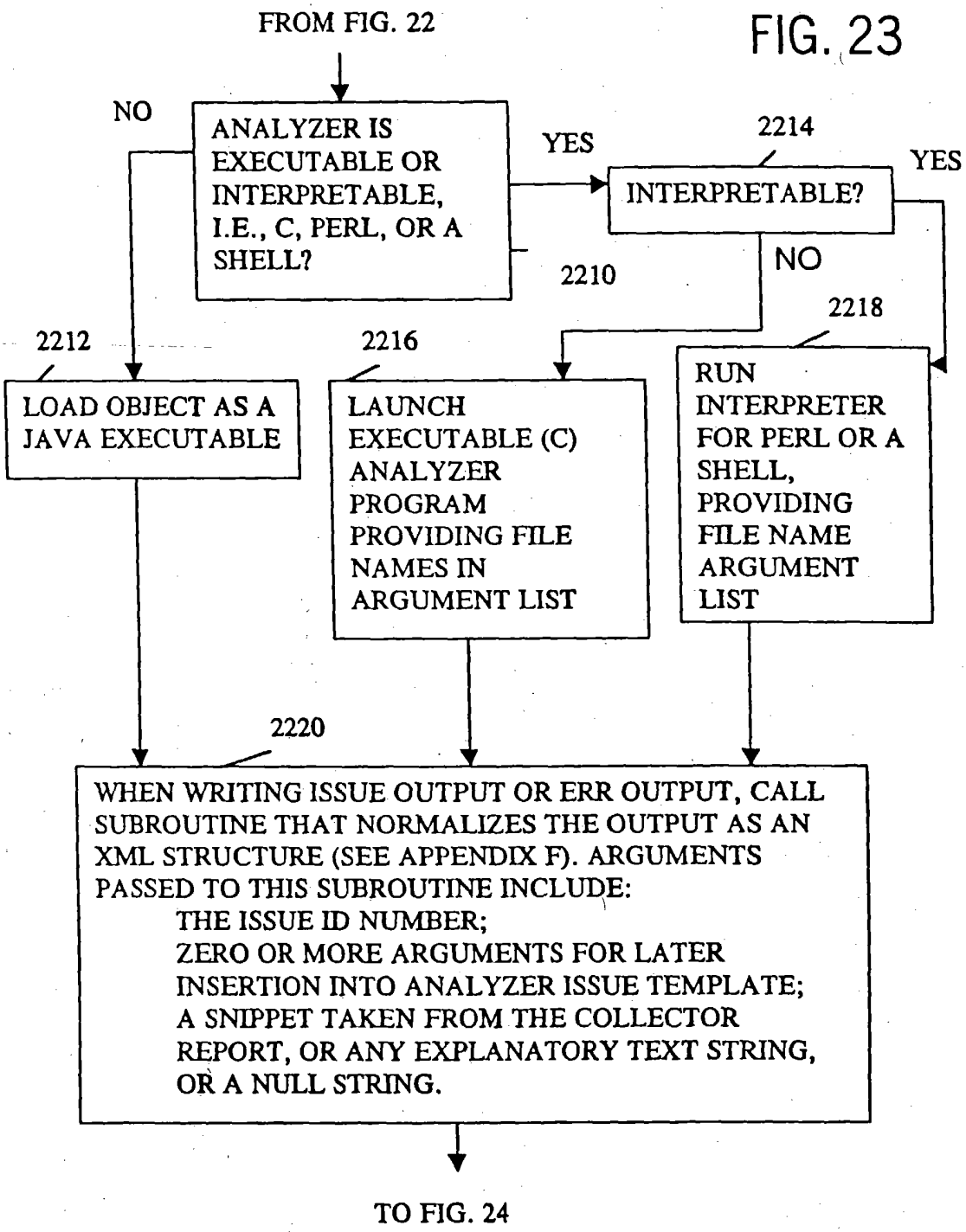

FROM FIG. 22
ANALYZER IS EXECUTABLE OR INTERPRETABLE, I.E., C, PERL, OR A SHELL?
NO
YES
2214
INTERPRETABLE?
YES
NO
2210
2212
LOAD OBJECT AS A JAVA EXECUTABLE
2216
LAUNCH EXECUTABLE (C) ANALYZER PROGRAM PROVIDING FILE NAMES IN ARGUMENT LIST
2218
RUN INTERPRETER FOR PERL OR A SHELL, PROVIDING FILE NAME ARGUMENT LIST
2220
WHEN WRITING ISSUE OUTPUT OR ERR OUTPUT, CALL SUBROUTINE THAT NORMALIZES THE OUTPUT AS AN XML STRUCTURE (SEE APPENDIX F). ARGUMENTS PASSED TO THIS SUBROUTINE INCLUDE:
THE ISSUE ID NUMBER;
ZERO OR MORE ARGUMENTS FOR LATER INSERTION INTO ANALYZER ISSUE TEMPLATE;
A SNIPPET TAKEN FROM THE COLLECTOR REPORT, OR ANY EXPLANATORY TEXT STRING, OR A NULL STRING.
TO FIG. 24

FIG. 24

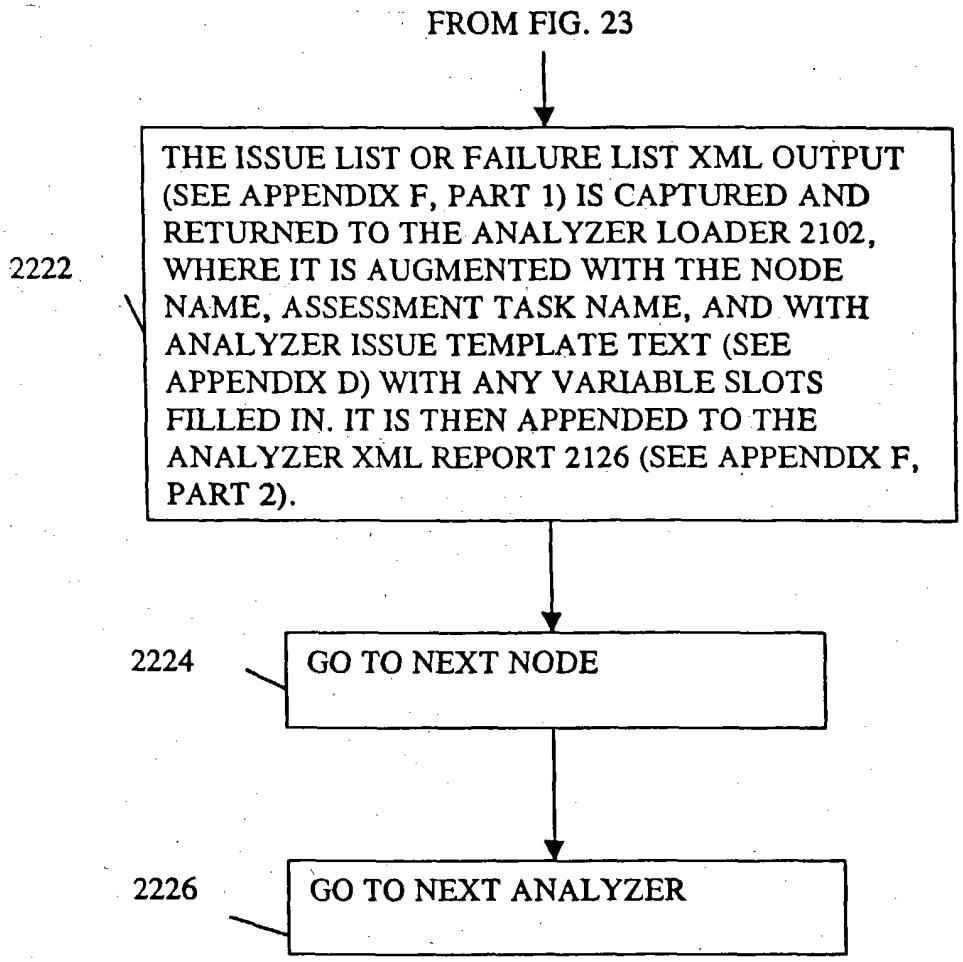

FROM FIG. 23
THE ISSUE LIST OR FAILURE LIST XML OUTPUT (SEE APPENDIX F, PART 1) IS CAPTURED AND RETURNED TO THE ANALYZER LOADER 2102, WHERE IT IS AUGMENTED WITH THE NODE NAME, ASSESSMENT TASK NAME, AND WITH ANALYZER ISSUE TEMPLATE TEXT (SEE APPENDIX D) WITH ANY VARIABLE SLOTS FILLED IN. IT IS THEN APPENDED TO THE ANALYZER XML REPORT 2126 (SEE APPENDIX F, PART 2).
2222
2224
GO TO NEXT NODE
2226
GO TO NEXT ANALYZER

FIG. 25

CONCEPTUAL ASSESSMENT XML HIERARCHY

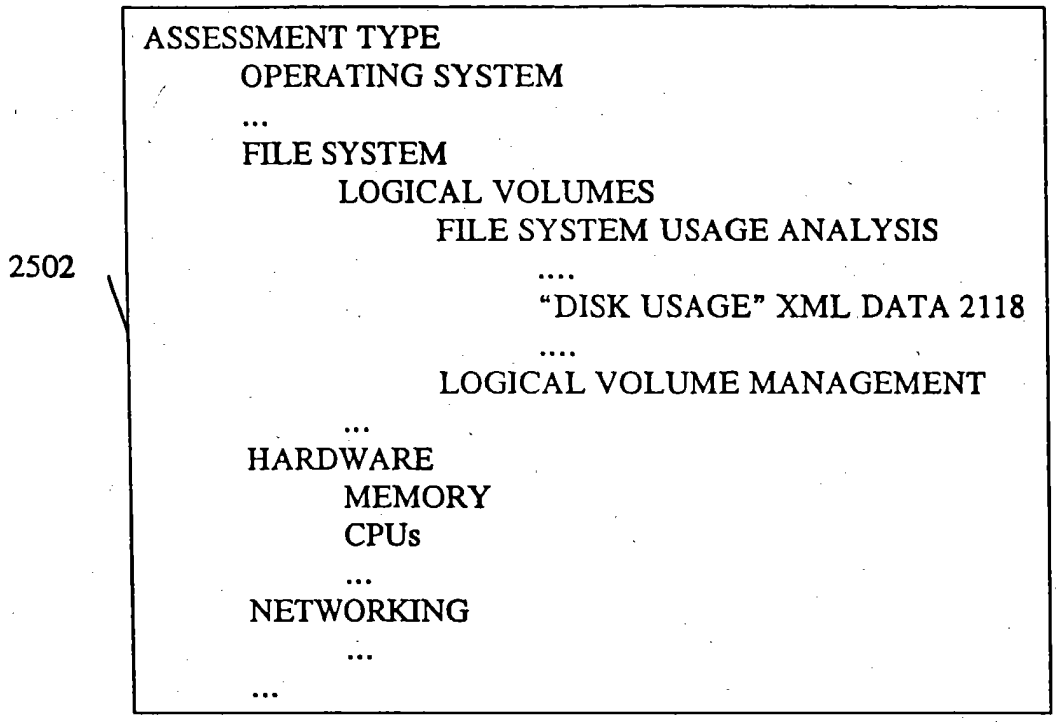


FIG. 26

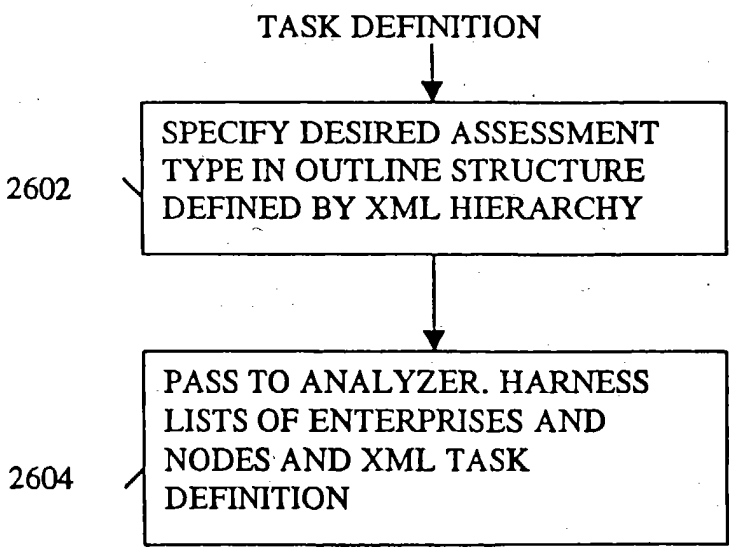


FIG. 27 -- ANALYZERS

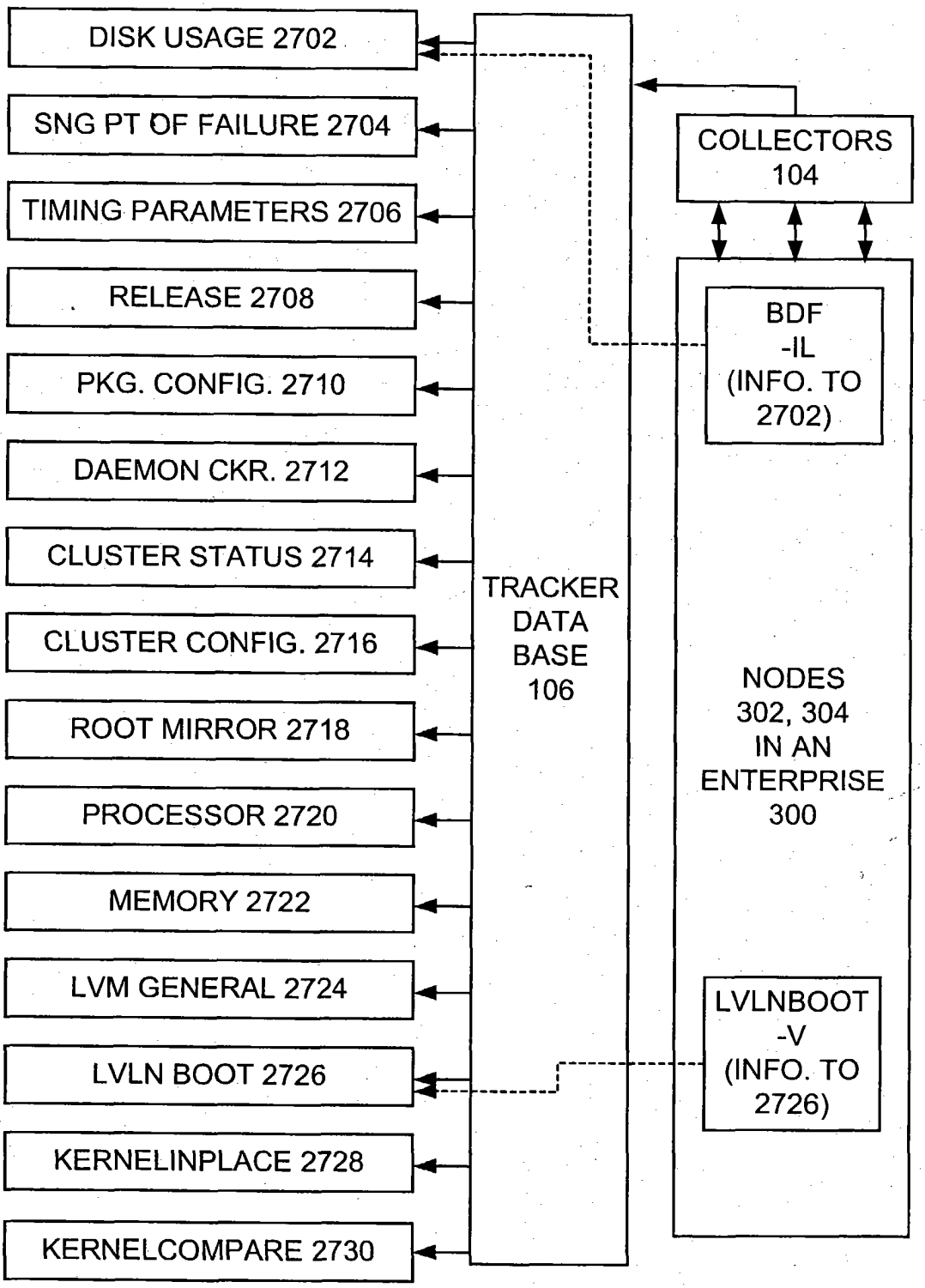
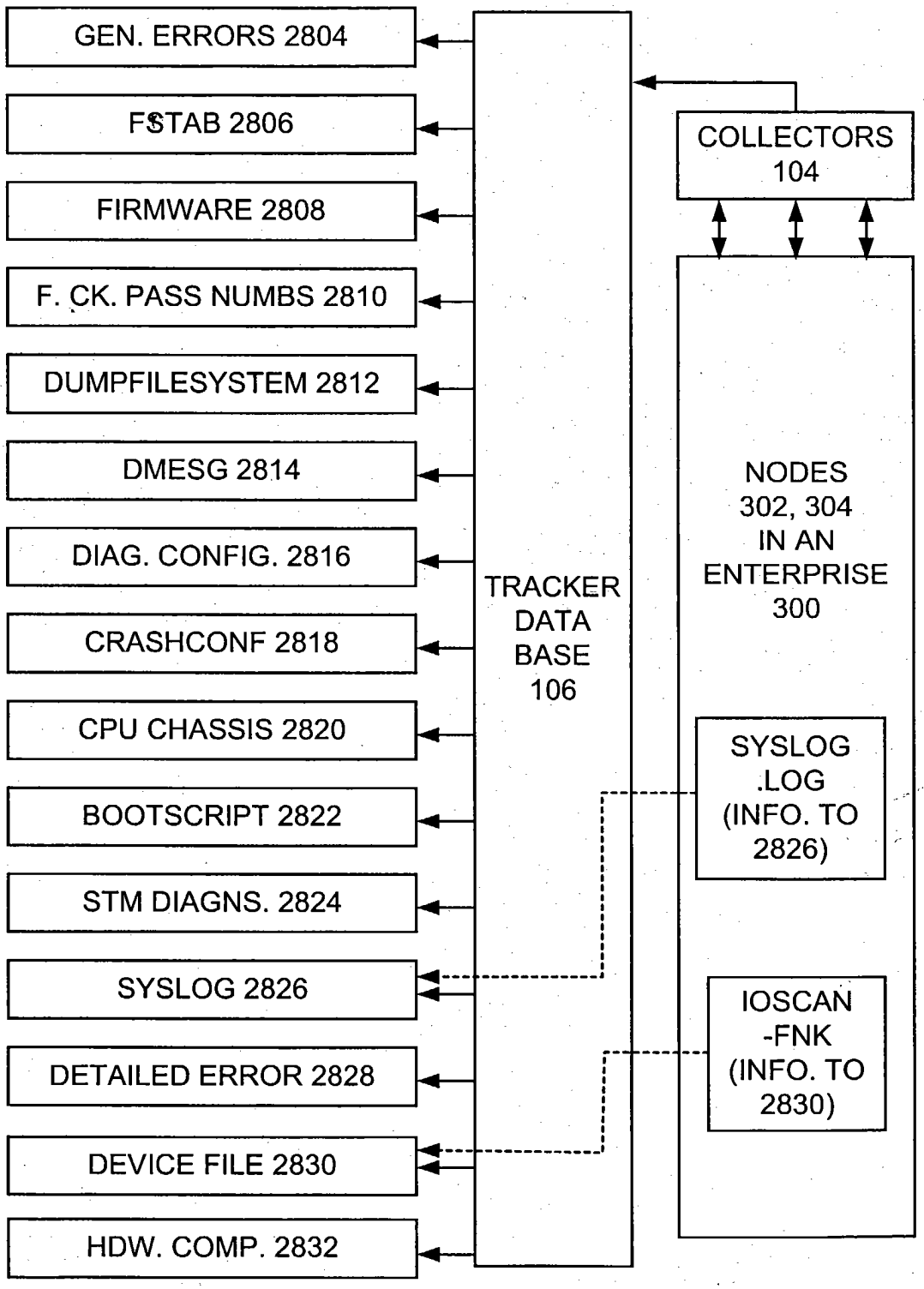



FIG. 28 -- ANALYZERS (CONT.)